

Form PTO-1449 (Modified)

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
27754/X254A

Serial No.

**INFORMATION DISCLOSURE STATEMENT***(Use several sheets if necessary)*Applicant  
Temple et al.Filing Date  
1/3/01

Group

**U.S. PATENT DOCUMENTS**

*Examiner Initials	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
ES	3,586,816	06/22/71	Hagen	219	121	
	4,378,480	03/29/83	Langhans	219	121	
	4,682,885	07/28/87	Torigoe	355	67	
	4,683,524	07/28/87	Ohta	362	268	
	4,793,694	12/27/88	Liu	350	379	
	4,851,978	07/25/89	Ichihara	362	268	
	4,950,862	08/21/90	Kajikawa	219	121.7	
	5,055,653	10/08/91	Funami et al.	219	121.75	
	5,063,280	11/05/91	Inagawa et al.	219	121.7	
	5,153,773	10/06/92	Muraki et al.	359	619	
	5,208,980	05/11/93	Hayes	29	890.1	
	5,263,250	11/23/93	Nishiwaki et al.	29	890.1	
	5,290,992	03/01/94	Lin et al.	219	121.74	
	5,362,940	11/08/94	MacDonald et al.	219	121.68	
	5,367,143	11/22/94	White, Jr.	219	121.68	
	5,373,137	12/13/94	McLaughlin	219	121.68	
	5,406,042	04/11/95	Engelfriet et al.	219	121.68	
	5,425,045	06/13/95	Hamatani	372	101	
SS	5,430,816	07/04/95	Furuya et al.	385	33	

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SS	5,463,200	10/31/95	James et al.	219	121.68	—
SS	5,498,851	03/12/96	Hayashi et al.	219	121.7	08/24/93
SS	5,676,866	10/14/97	in den Bäumen et al.	219	121.77	04/14/95

**FOREIGN PATENT DOCUMENTS**

*Examiner Initials	Document Number	Publication Date	Country	Class	Subclass	Translation	
						Yes	No
SS	0 066 432 A2	12/08/82	EPO				
	0 419 069 A2	03/27/91	EPO				
	0 454 152 A2	10/30/91	EPO				
	0 488 033 A2	06/03/92	EPO				
	0 549 357 A1	06/30/93	EPO				
	0 683 007 A1	11/22/95	EPO				X
	0 706 072 A2	04/10/96	EPO				
	0 719 644 A2	07/03/96	EPO				
	0 720 035 A2	07/03/96	EPO				
	0 786 305 A1	07/30/97	EPO				
SS	0 807 484 A1	11/19/97	EPO				

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*John J. J. J.*

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*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
SS		2 262 253 A	06/16/93	Great Britain				
		57181873 A	11/09/82	Japan			Abstract only	
		61023592 A	02/01/86	Japan			Abstract only	
		62002540 A	01/08/87	Japan			Abstract only	
		62115718 A	05/27/87	Japan			Abstract only	
		62115719 A	05/27/87	Japan			Abstract only	
		1-313196 A	12/18/89	Japan			Abstract only	
		2-17325	02/05/90	Japan			X	
		WO 86/02301	04/24/86	PCT				
		WO 93/15911	08/19/93	PCT				
		WO 94/01240	01/20/94	PCT				
SS		WO 94/29069	12/22/94	PCT			Abstract only	

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*John Quinlan*


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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
SS	—	Welding Handbook, Eighth Edition, vol. 2, American Welding Society, p. 504-505, 1991

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